

AFCTN Test Report 93-024

AFCTB-ID 92-051



Technical Publication Transfer Test



Using:

Northrop Corporation Data



MIL-D-28000A (IGES) MIL-M-28001A (SGML)



Quick Short Test Report



Management Representation of the Property Distribution Unimited

01 September 1992



Prepared for

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Electronic Systems Center

Technical Publication Transfer Test Using: Northrop Corporation Data

MIL-D-28000A (IGES) MIL-M-28001A (SGML)

Quick Short Test Report

1 September 1992

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1. Introduction

1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-Cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving and evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

1.2 Purpose

The purpose of the informal test, reported in this QSTR, was to analyze Northrop Corporation's interpretation and use of the CALS standards in transferring technical publication data. Northrop used its CALS Technical Data Interchange System to produce, data in accordance with the standards, and delivered it to the AFCTN technical staff on a 9-track magnetic tape.

2. Test Parameters

Test Plan:

AFCTB 92-051

Date of

Evaluation:

1 September 1992

Evaluator:

George Elwood

Air Force CALS Test Bed

HQ ESC/ENCP Suite 200

4027 Colonel Glenn Hwy Dayton OH 45431-1672

Data

Originator:

John Bean

Northrop Corporation

B-2 Division 1595/XY

Pico Rivera CA 90660

Data

Description:

Technical Manual Test

2 Document Declaration files

1 Document Type Definitions (DTD)

103 Initial Graphics Exchange Specification

(IGES) files

2 Text files

1 Format Output Specification Instance

(FOSI) file

Data

Source System:

IGES

HARDWARE

Unknown

SOFTWARE

Unknown

Text/Stand Generalized Markup Language (SGML)

HARDWARE

Unknown

SOFTWARE

Unknown

Evaluation Tools Used:

MIL-STD-1840A (TAPE)

SUN 3/280

AFCTN Tapetool (v1.2.8) UNIX
AGFA Compugraphics CAPS/CALS v40.4

MIL-D-28000 (IGES)

SUN 3/60

IGES Data Analysis (IDA) IGESview v2.0 IDA IGES Parser/Verifier Rosetta Technologies Preview v3.2

Sun SparcStation 2

AGFA CAPS ig2ps v6.0x
ArborText iges2draw
IDA Parser/Verifier
IDA IGESView v3.0
Intergraph I/EMS 02.00.01.11
Intergraph I/CIGES 02.00.01.03
International TechneGroup Incorporated
(ITI) IGES/Works 1.0

Rosetta Technologies Preview v3.2

HP PA RISC 7000

CarBerry CADLeaf 3.0

Cheetah Gold 486

Autodesk AutoCAD 386 R11
Cadkey Cadkey v4.06
IDA IGES Parser/Verifier
Mirco Engineering Solutions CheckMark

MIL-M-28001 (SGML)

SUN SparcStation 2

ArborText ADEPT v4.2.1 SoftQuad Author/Editor v2.1

Cheetah Gold 486

Datalogics ParserStation v3.36 Exoterica XGMLNormalizer v1.2e3.2 SoftOuad Author/Editor v2.1

Standards Tested:

MIL-STD-1840A MIL-D-28000A MIL-M-28001A

3. 1840A Analysis

3.1 External Packaging

The tape arrived at the Air Force CALS Test Bed (AFCTB) enclosed in a box in accordance with ASTM D 3951. The exterior of the box was marked with the magnetic tape warning label, as required by MIL-STD-1840A, para. 5.3.1.3.

The tape was not enclosed in a barrier bag or barrier sheet material as required by MIL-STD-1840A, para. 5.3.1.2. Inspection of the tape reel showed the label indicating the recording density, as required by MIL-STD-1840A, para.5.3.1. Enclosed in the box was a packing list showing all files recorded on the tape.

3.2 Transmission Envelope

The 9-track tape received by the AFCTB contained MIL-STD-1840A files. The files were named per the standard conventions.

3.2.1 Tape Formats

The 1840A tape was run through the AFCTB $Tapetool\ v1.2.8$ utility. No errors were reported while evaluating the contents of the tape labels.

A note was reported on the tape label version. MIL-STD-1840A permits the use of both versions three and four. The use of the most current standard should be used and noted.

The tape was also read using AGFA CAPS read1840A tape utility. No errors were reported during this operation.

3.2.2 Declaration and Header Fields

No errors were reported during the evaluation of the Document Declaration file and data file header records.

4. IGES Analysis

The tape contained 103 IGES files. All 103 files appeared to be identical. A file comparison check was made which verified this to be true, therefore, only file D001Q007 will be used in the balance of this report.

The file was checked visually for the required MIL-D-28000A statement in the Start section. The correct information was found.

This file was verified using IDA's Parser/Verifier for CALS Class I Standards. Several CALS Class I errors were noted during this operation relating to entity type 106. The line font noted in the DE area was listed as zero. MIL-D-28000A Table I requires this value to be between 1 and 5.

*** Entity type: 106

ERROR 4046: Illegal line font for CALS Class I specified in D 87.

This must be 1, 2, 3, 4, or 5

vvv

106 63 0 0 0 0 0 000010001D 87

106 0 4 3 63 D 88

Additional basic CALS errors were also noted. The entire verification log is located in the Appendix of this report.

Because all files were the same, D001Q007 was selected for the image generation phase of the test.

The file was converted using the ArborText *iges2draw* utility. No errors were noted. When the file was imported into Island Graphics' *IslandDraw*, nothing was displayed.

The file was converted using Autodesk's AutoCAD R11. This process generated many error messages relating to non-supported entities. The hard copy of this process is included in the Appendix of this report.

The file was converted to Cadkey's Cadkey format with no reported errors. The file displayed and printed without a problem. The hard copy is included in the Appendix of this report.

The file was read into IDA's IGESVIEW. No errors were reported yet nothing was displayed on the screen.

The file was converted using Intergraph EMS ciges utility without a reported problem. The file was then read into EMS and displayed without a problem.

The file was read into ITI's *IGESWorks* with no reported problems. The image displayed and printed without a problem.

The file was converted using Rosetta Technologies' Prepare and viewed using Preview. The conversion process generated some errors relating to non-supported entities. The hard copy of the file is included in the Appendix of this report.

Because of the noted error with entity type 106, the IGES file does not meet the CALS MIL-D-28000A specification.

5. SGML Analysis

The Text file from this document was tested using the Exoterica XGMLNormalizer parser. The DTD was parsed without a reported error, although several warnings were issued relating to the use of mixed content data characters. No problems were encountered with the included Text file.

Using the compiled DTD, the Text file did not report any errors.

The file was parsed using Datalogics' ParseStation, Arbor-Text's Adept, and SoftQuad's Author/Editor with no reported errors.

The AFCTB does not have any software which would permit the use of the FOSI and to generate the entire document.

6. Raster Analysis

No Raster files were included on this tape.

7. CGM Analysis

No Computer Graphics Metafile (CGM) files were included on this tape.

8. Conclusions and Recommendations

In summary, the MIL-STD-1840A tape from Northrop Corporation, B-2 Division was correct. The tape could be read properly using both the AFCTN tapetool and AGFA CAPS read1840A without any reported errors.

The tape contained 103 IGES files which were exactly alike. The files contained the correct 'Start' section note. Only one CALS error relating to line font was reported during the parsing operation.

The DTD and SGML documents were parsed without any reported errors using several different utilities.

The tape does not meet the CALS MIL-STD-1840A requirements due to minor problems with the IGES file.

9. Appendix A - Tapetool Report Logs

9.1 Tape Catalog

Air Force CALS Test Network Catalog Evaluation - Version 1.2; Release Number 8

Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information
ANSI X3.27 (1987) - File Structure and Labeling of Magnetic Tapes
for Information Interchange
ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Tue Sep 1 09:03:45 1992

MIL-STD-1840A File Catalog

File Set Directory: /cals/tapetool8/Set084

Page: 1

File Name	File Type	Record Format/ Length		Selected/ Extracted
D001	Document Declaration	D/00260	02048/000001	Extracted
D002	Document Declaration	D/00260	02048/000001	Extracted
D001T001	Text	D/00260	02048/000063	Extracted
D001G002	DTD	D/00260	02048/000014	Extracted
D001H003	Output Specification	D/00260	02048/000088	Extracted
D001Q004	IGES	F/00080	02000/000035	Extracted
D001Q005	IGES	F/00080	02000/000035	Extracted
	<><< PART OF LOG REMOVED	HERE >>>	>>	
D001Q106	IGES	F/00080	02000/000035	Extracted
D002T001	Text	D/00260	02048/000021	Extracted

Catalog Process terminated normally.

9.2 Tape Evaluation Log

Air Force CALS Test Network Tape Evaluation - Version 1.2; Release Number 8 Standards referenced:

ANSI X3.27 (1987) - File Structure and Labeling of Magnetic Tapes for Information Interchange

ANSI X3.4 (1986) - Coded Character Sets - 7 Bit ASCII

Tue Sep 1 09:00:21 1992

ANSI Tape Import Log

Allocating tape drive /dev/rmt0...

/dev/rmt0 allocated.

VOL1ITDS01

CONTROLLER

Label Identifier: VOL1
Volume Identifier: ITDS01
Volume Accessibility:
Owner Identifier:

Label Standard Version: 4

*** NOTE (ANSI X3.27; 8.3.1.1) - Columns 12-24 are reserved for future standardization and must be spaces.

HDR1D001

ITDS0100010001000100 92237 92237 000000 CONTROLLER

Label Identifier: HDR1 File Identifier: D001

File Set Identifier: ITDS01 File Section Number: 0001 File Sequence Number: 0001 Generation Number: 0001

Generation Version Number: 00

Creation Date: 92237 Expiration Date: 92237 File Accessibility: Block Count: 000000

Implementation Identifier: CONTROLLER

HDR2D0204800260

00

Label Identifier: HDR2
Recording Format: D
Block Length: 02048
Record Length: 00260

Offset Length: 00

********* Tape Mark **********

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 1.

******** Tape Mark **********

EOF1D001

ITDS0100010001000100 92237 92237 000001 CONTROLLER

Label Identifier: EOF1 File Identifier: D001

File Set Identifier: ITDS01 File Section Number: 0001 File Sequence Number: 0001 Generation Number: 0001

Generation Version Number: 00 Creation Date: 92237

Expiration Date: 92237 File Accessibility: Block Count: 000001

Implementation Identifier: CONTROLLER

EOF2D0204800260

00

Label Identifier: EOF2
Recording Format: D
Block Length: 02048
Record Length: 00260
Offset Length: 00

******* Tape Mark **********

HDR1D002

ITDS0100010002000100 92237 92237 000000 CONTROLLER

Label Identifier: HDR1 File Identifier: D002

File Set Identifier: ITDS01 File Section Number: 0001 File Sequence Number: 0002 Generation Number: 0001

Generation Version Number: 00

Creation Date: 92237 Expiration Date: 92237 File Accessibility: Block Count: 000000

Implementation Identifier: CONTROLLER

HDR2D0204800260

00

Label Identifier: HDR2
Recording Format: D
Block Length: 02048
Record Length: 00260
Offset Length: 00

******* Tape Mark **********

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 1.

******* Tape Mark *********

EOF1D002

ITDS0100010002000100 92237 92237 000001 CONTROLLER

Label Identifier: EOF1 File Identifier: D002

File Set Identifier: ITDS01 File Section Number: 0001 File Sequence Number: 0002 Generation Number: 0001

Generation Version Number: 00

Creation Date: 92237 Expiration Date: 92237 File Accessibility: Block Count: 000001

Implementation Identifier: CONTROLLER

EOF2D0204800260

00

Label Identifier: EOF2
Recording Format: D
Block Length: 02048
Record Length: 00260
Offset Length: 00

<<<< PART OF LOG REMOVED HERE >>>>

******* Tape Mark *********

HDR1D002T001

ITDS0100010109000100 92237 92237 000000 CONTROLLER

Label Identifier: HDR1
File Identifier: D002T001
File Set Identifier: ITDS01

File Section Number: 0001
File Sequence Number: 0109
Generation Number: 0001
Generation Version Number: 00

Creation Date: 92237 Expiration Date: 92237

File Accessibility: Block Count: 000000

Implementation Identifier: CONTROLLER

HDR2D0204800260

00

Label Identifier: HDR2
Recording Format: D
Block Length: 02048
Record Length: 00260
Offset Length: 00

******* Tape Mark *********

Actual Block Size Found = 2048 Bytes.

Number of data blocks read = 21.

******** Tape Mark **********

EOF1D002T001

ITDS0100010109000100 92237 92237 000021 CONTROLLER

Label Identifier: EOF1
File Identifier: D002T001
File Set Identifier: ITDS01
File Section Number: 0001
File Sequence Number: 0109
Generation Number: 0001

Generation Version Number: 00 Creation Date: 92237

Expiration Date: 92237
Expiration Date: 92237
File Accessibility:
Block Count: 000021

Implementation Identifier: CONTROLLER

EOF2D0204800260

00

Label Identifier: EOF2
Recording Format: D
Block Length: 02048
Record Length: 00260
Offset Length: 00

9.3 Tape File Set Validation Log

Air Force CALS Test Network File Set Evaluation - Version 1.2; Release Number 8 Standards referenced:

MIL-STD-1840A (1987) - Automated Interchange of Technical Information

Tue Sep 1 09:03:46 1992

MIL-STD-1840A File Set Evaluation Log

File Set: Set084

Found file: D001

srcsys: John G, Bean, ITDS User System Program Manager, Northrop Corporation, B-2 Divi

L595/XY, Pico Rivera, CA 90660 (310) 942-6553

srcdocid: 1B-2A-2-95JG-10-1

srcrelid: NONE chglvl: ORIGINAL dteisu: 19920819

dstsys: Gary Lammers, Manager, USAF CALS Test Bed, HQ ESC/ENCP, 4027 Col. Glenn Hwy, D

OH 45431-1672

dstdocid: 1B-2A-2-95JG-10-1

dstrelid: NONE dtetrn: 19920824 dlvacc: NONE

filcnt: T1, H1, G1, Q103 ttlcls: UNCLASSIFIED doccls: UNCLASSIFIED doctyp: JOB GUIDE

docttl: CREW ESCAPE AND SAFETY EJECTION SEATS

Found file: D001T001

Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: 1B-2A-2-95JG-10-1
dstdocid: 1B-2A-2-95JG-10-1

txtfilid: W

doccls: UNCLASSIFIED

notes: NONE

Saving Text Header File: D001T001_HDR Saving Text Data File: D001T001_TXT

Found file: D001G002

Extracting DTD Header Records...

Evaluating DTD Header Records...

srcdocid: 1B-2A-2-95JG-10-1
dstdocid: 1B-2A-2-95JG-10-1

notes: NONE

Saving DTD Header File: D001G002_HDR Saving DTD Data File: D001G002_DTD

Found file: D001H003

Extracting Output Specification Header Records... Evaluating Output Specification Header Records...

srcdocid: 1B-2A-2-95JG-10-1
dstdocid: 1B-2A-2-95JG-10-1

notes: NONE

Saving Output Specification Header File: D001H003_HDR Saving Output Specification Data File: D001H003 OS

Found file: D001Q004

Extracting IGES Header Records...
Evaluating IGES Header Records...

srcdocid: 1B-2A-2-95JG-10-1
dstdocid: 1B-2A-2-95JG-10-1

txtfilid: W
figid: NONE

srcgph: B2AJG9510-0005
doccls: UNCLASSIFIED

notes: NONE

Saving IGES Header File: D001Q004_HDR Saving IGES Data File: D001Q004_IGS

<><< PART OF LOG REMOVED HERE >>>>

Found file: D002T001

Extracting Text Header Records...
Evaluating Text Header Records...

srcdocid: B2JGOSDTD
dstdocid: B2JGOSDTD

txtfilid: W

doccls: UNCLASSIFIED

notes: NONE

Saving Text Header File: D002T001 HDR

Saving Text Data File: D002T001_TXT

Evaluating numbering scheme...

No errors were encountered during numbering scheme evaluation. Numbering scheme evaluation complete.

Checking file count...

No errors were encountered during file count verification. File Count verification complete.

No errors were encountered in Document D002.

No errors were encountered in this File Set.

MIL-STD-1840A File Set Evaluation Complete.

9.4 Other Tape Reading Logs

No errors were reported by Agfa's read1840A utility.

10. Appendix B - IGES Detailed Analysis

10.1 File D001Q007

10.1.1 Paser/Verifier Log

```
*** IGES DATA FILE ANALYSIS ***
                  MARCH 1992
               IGES Data Analysis
                 (708) 449-3430
 Input file is q007.igs
Checking conformance to CALS Class I (MIL-D-28000A 2/10/92)
Today is September 2, 1992 8:28 AM
*** File and Product Name Information ***
  File name from sender = 'handlerev.iges'
  File creation Date.Time = '920820.111052'
  Model change Date.Time = ''
  Author
                           = 'NORTHROP B2 ITDS CTB'
  Department
  Product name from sender = 'handlerev.iges'
  Destination product name = 'handlerev.iges'
*** Parameter Delimiters ***
  Delimiter = ','
  Terminator = ';'
*** Originating System Data ***
  System ID
                        = 'ITDS CONVERTER: GEF_IGES'
  Preprocessor version = '1.0'
  Specification version = 6 (IGES 4.0)
*** Precision levels ***
  Integer bits =
  Floating point - Exponent = 38 Mantissa =
  Double precision - Exponent = 308 Mantissa =
*** Global Model Data ***
  Model scale
                   = 1.0000E+00
```

Unit flag = 1 Units = 'IN' Line weights = 1

Maximum line thickness = 1.600000E-02 Minimum line thickness = 1.600000E-02

CAUTION 2317: Maximum line thickness equal to minimum thickness.

Granularity = 1.000000E-07 Maximum coordinate = 6.693571E+00

Drafting standard applicable to original data is not specified.

*** Status Flag Summary ***

Blank status:	Visible	219
	Blanked	0
Independence:	Independent	168
	Physically Subordinate	9
	Logically Subordinate	42
•	Totally Subordinate	0
Entity use:	Geometry	205
	Annotation	14
	Definition	0
	Other	0
	Logical/Positional	0
	2D parametric	0
	Not Specified	0
Hierarchy:	Structure DE applies	0
	Subordinate DE applies	219
	Hierarchy property applies	0
	Not Specified	0

*** Entity Occurrence Counts ***

Entity	Form	Level	Count	Type
100	0	0	125	Circular arc
104	1	0	2	Conic arc - ellipse
106	11	0	11	Copious data - Piecewise planar, linear string(2D
path)				
106	63	0	9	Simple closed planar curve
110	0	0	45	Line
124	0	0	2	Transformation matrix
212	0	0	12	General note
230	0	0	9	Sectioned area (Standard Crosshatching)

404	0	0	1	Drawing
406	16	Ö	1	Property - Drawing size
406	18	0	1	Property - Intercharacter spacing
410	0	0	1	View - Orthographic parallel

*** Entity Count by Level ***

Level Count 0 219

*** Labeling Information ***

0% of the entities are labeled.

Unlabeled 219

*** Line Fonts Used in Data ***

100	102	104	106	108	110	112	114	
-	-	-	9	-	-	-	-	Undefined
125	-	2	11	-	45	-	-	Solid
-	-	-	-	-	-	-	-	Dashed
-	-	-	_	-	-	-	-	Phantom
-	-	-	-	-	-	-	-	Center-line
-	-	-	-	-	-	-	-	Dotted
-	-	-	-	-	-	-	-	User defined
116	118	120	122	124	125	126	128	
-	-	-	-	2	-	•	-	Undefined
-	-	-	-	-	-	-	-	Solid
-	-	-	-	-	-	-	-	Dashed
-	-	-	-	-	-	-	-	Phantom
-	-	-	-	-	-	-	-	Center-line
-	-	-	-	-	-	-	-	Dotted
-	-	-	-	-	-	-	-	User defined
130	132	134	136	138	140	142	144	
-	-	-	-	-	-	-	-	Undefined
-	-	-	-	-	-	-	-	Solid
-	-	-	-	-	-	-	-	Dashed
-	-	-	-	-	-	-	-	Phantom
-	-	-	-	-	-	-	-	Center-line
-	-	_	-	-	-	-	-	Dotted
-	-	-	-	-	-	-	-	User defined

*** Line Widths Used in Data ***

Weight	Count	Width
Defaulted	36	(0.0160)
1	183	(0.0160)

*** Colors Used in Data ***

Defaulted 6
Blue 213

****** ENTITY ANALYSIS *****

*** Entity type: 100

ERROR 2242: Radii not equal at D 135; difference is 2.185078E-05. ERROR 2242: Radii not equal at D 141; difference is 2.631546E-04.

ERROR 2242: Messages regarding unequal radii suppressed.

*** Entity type: 104

WARNING 2265: Start point off conic by 5.045419E-03 at D 321.
WARNING 2039: End point off conic by 5.045419E-03 at D 321.
WARNING 2265: Start point off conic by 2.278689E-04 at D 367.
WARNING 2039: End point off conic by 1.074573E-04 at D 367.

*** Entity type: 106

*** Entity type: 110

-- 45 lines averaging 2.361677E-01 units --

*** Entity type: 124

2 transformation matrices, 2 non-zero translations.
NOTE 2341: 2 matrices contain translation information.

*** Entity type: 212 12 text strings in data file. Average text aspect ratio in file is 0.8927706. Minimum text aspect ratio in file is 0.8918800. Maximum text aspect ratio in file is 0.8935355. FONTS USED IN FILE FONT COUNT NAME 12 Default ASCII Style *** Entity type: 230 NITPICK 2076: Entity does not have Annotation flag set at D NITPICK 2076: Entity does not have Annotation flag set at D <><< PART OF LOG REMOVED HERE >>>> *** Entity type: 404 WARNING 2035: Drawing entity may not be subordinate at D Drawing at D 5 contains 1 views. NITPICK 2289: View (D 1) is not logically subordinate to drawing at D 5. 5 contains 0 annotation entities. Drawing at D *** Entity type: 406 ERROR 4046: Illegal line font for CALS Class I specified in D *** Entity type: 410 CAUTION 2332: View attributes are not subordinate (orphan view?) at D Scale of view at D 1 is 1.000000E+00. Orthographic View entity at D 1 has 0 clipping planes specified. XMIN = Not Set XMAX = Not Set YMIN = Not Set YMAX = Not Set ZMIN = Not Set ZMAX = Not Set

*** Message Summary ***

2011: 2 Invalid subordinate relationships.

2015: 117 Mathematically incorrect definitions.

2016: 9 Invalid entity use flag.

2018: 1 Problems with line weight/width display information.

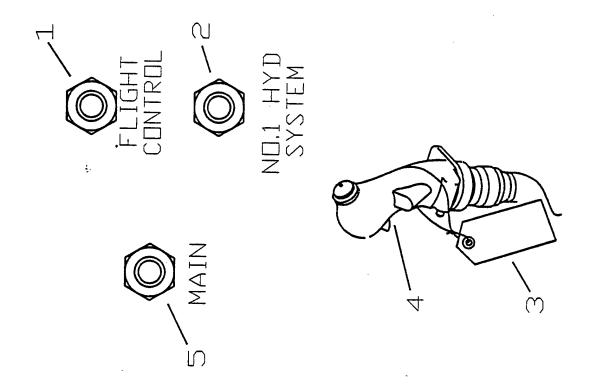
4016: 10 Illegal line fonts

```
*** Error Summary ***
```

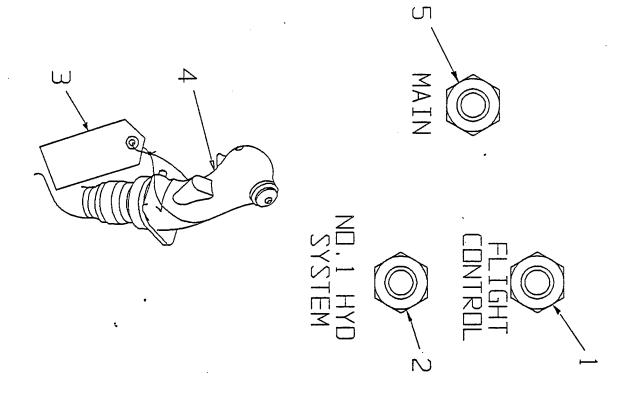
- 0 fatal errors
- 0 severe errors
- 123 errors
 - 5 warnings
 - 2 cautions
- 10 nitpicks
 - 1 notes

*** End of Analysis of q007.igs ***

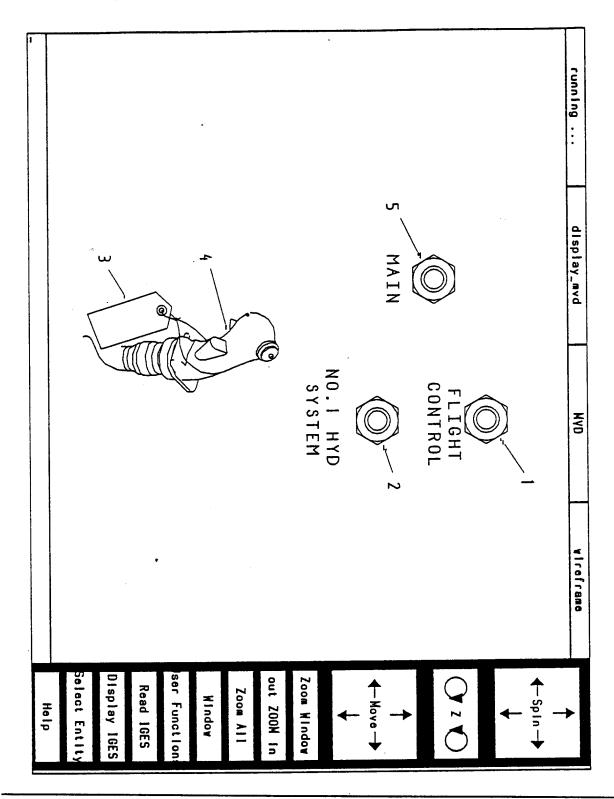
10.1.2 Output AutoCAD R11



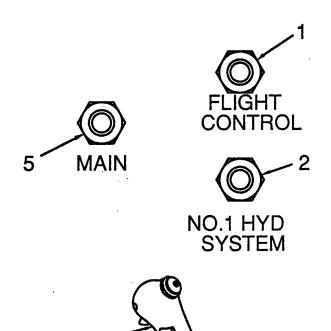
10.1.3 Output Cadkey v4.06



10.1.4 Output IGESWorks



10.1.5 Output Preview



11. Appendix C - SGML Detailed Analysis

11.1 Datalogics Parser Log

```
IPA0108:
                *** SGML Instance Parser Log File ***
Source Document File: 'north51.txt'.
Job File:
                       'north.jbf'.
DTD File:
SGML Declaration File: ''.
Reading File 'north.jbf', File Type 'JOB FILE'.
     Concrete Syntax Settings In Effect For This Parse:
         NAMECASE GENERAL: YES.
         NAMECASE ENTITY: NO.
         NAMELEN:
                           32.
                           YES.
         SHORTTAG:
Closed 'north.jbf', File Type 'JOB FILE'.
Reading File 'north51.txt', File Type 'DIRECT INPUT FILE'.
   --> Scanned Up To Line 100 In north51.txt.
   --> Scanned Up To Line 200 In north51.txt.
   --> Scanned Up To Line 300 In north51.txt.
   --> Scanned Up To Line 400 In north51.txt.
   --> Scanned Up To Line 500 In north51.txt.
   --> Scanned Up To Line 600 In north51.txt.
   --> Scanned Up To Line 700 In north51.txt.
   --> Scanned Up To Line 800 In north51.txt.
   --> Scanned Up To Line 900 In north51.txt.
   --> Scanned Up To Line 1000 In north51.txt.
   --> Scanned Up To Line 1100 In north51.txt.
   --> Scanned Up To Line 1200 In north51.txt.
   --> Scanned Up To Line 1300 In north51.txt.
   --> Scanned Up To Line 1400 In north51.txt.
   --> Scanned Up To Line 1500 In north51.txt.
   --> Scanned Up To Line 1600 In north51.txt.
   --> Scanned Up To Line 1700 In north51.txt.
   --> Scanned Up To Line 1800 In north51.txt.
   --> Scanned Up To Line 1900 In north51.txt.
   --> Scanned Up To Line 2000 In north51.txt.
   --> Scanned Up To Line 2100 In north51.txt.
   --> Scanned Up To Line 2200 In north51.txt.
   --> Scanned Up To Line 2300 In north51.txt.
   --> Scanned Up To Line 2400 In north51.txt.
   --> Scanned Up To Line 2500 In north51.txt.
   --> Scanned Up To Line 2600 In north51.txt.
   --> Scanned Up To Line 2700 In north51.txt.
   --> Scanned Up To Line 2800 In north51.txt.
```

- --> Scanned Up To Line 2900 In north51.txt.
- --> Scanned Up To Line 3000 In north51.txt.
- --> Scanned Up To Line 3100 In north51.txt.
- --> Scanned Up To Line 3200 In north51.txt.
- --> Scanned Up To Line 3300 In north51.txt.
- --> Scanned Up To Line 3400 In north51.txt.

Closed 'north51.txt', File Type 'DIRECT INPUT FILE'.
Document Parsed Successfully, No Errors or Warnings.

11.2 Exoterica Parser

C:\XGML\XGMLTEST.EXE --

Warning on line 333 in file entities/north51.dtd:

An element with mixed content does not permit data characters everywhere.

Spaces and line breaks in element 'ENTRY' may be treated as data characters, forcing insertion of markup.

C:\XGML\XGMLTEST.EXE --

Warning on line 463 in file entities/north51.dtd:

An element with mixed content does not permit data characters everywhere.

Spaces and line breaks in element 'NOTICE' may be treated as data characters, forcing insertion of markup.

C:\XGML\XGMLTEST.EXE --

Warning on line 527 in file entities/north51.dtd:

An element with mixed content does not permit data characters everywhere.

Spaces and line breaks in element 'RESULT' may be treated as data characters, forcing insertion of markup.